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OIPE

# 4

RAW SEQUENCE LISTING

DATE: 01/31/2002

PATENT APPLICATION: US/09/943,286

TIME: 13:09:37

Input Set : A:\GP104.SeqLst.corrected.txt

Output Set: N:\CRF3\01312002\I943286.raw

**ENTERED**

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3 <110> APPLICANT: Nunomura, Kiyotada
5 <120> TITLE OF INVENTION: POLYNUCLEOTIDE AMPLIFICATION METHOD
8 <130> FILE REFERENCE: GP104-02.UT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/943,286
C--> 10 <141> CURRENT FILING DATE: 2001-08-30
10 <160> NUMBER OF SEQ ID NOS: 9
12 <170> SOFTWARE: FastSEQ for Windows Version 3.0
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 55
16 <212> TYPE: DNA
17 <213> ORGANISM: Artificial Sequence
19 <220> FEATURE:
20 <223> OTHER INFORMATION: Primer T7A(-)4190
22 <400> SEQUENCE: 1
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25 <210> SEQ ID NO: 2
26 <211> LENGTH: 19
27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Primer (+)4108
33 <400> SEQUENCE: 2
34 acagcagtac aaatggcag 19
36 <210> SEQ ID NO: 3
37 <211> LENGTH: 8933
38 <212> TYPE: RNA
39 <213> ORGANISM: Human Immunodeficiency Virus
41 <220> FEATURE:
42 <221> NAME/KEY: source
43 <222> LOCATION: (1)...(8933)
44 <223> OTHER INFORMATION: Sequence of transcripts produced from the BH10
45 plasmid.
47 <400> SEQUENCE: 3
48 gagcucucuc gacgcaggac ucggcuugcu gaagcgcgca cggcaagagg cgaggggagg 60
49 cgacugguga guacgccaaa aauuuugacu agcggaggcu agaaggagag agaugggugc 120
50 gagagcgua guauuaagcg ggggagaaau agaucgaugg gaaaaaauc gguaaaggcc 180
51 aggggggaaag aaaaaauua aauuaaaaca uauaguaugg gcaagcaggg agcuagaacg 240
52 auucgcaguu aaucucggcc uguuagaaac aucagaaggc uguagacaaa uacugggaca 300
53 gcuacaacca ucccuucaga caggauacaga agaacuuaa ucauuauua auacaguagc 360
54 aaccucucua ugugugcauc aaaggauaga gauaaaagac accaagggaag cuuuagacaa 420
55 gauagaggaa gagcaaaaca aaaguaagaa aaaagcacag caagcagcag cugacacagg 480
56 acacagcagu caggucagcc aaaaauacc uauagugcag acauccagg ggcaaauggu 540
57 acaucaggcc auaucaccua gaacuuuaaa ugcaugggua aaaguaguag aagagaaggc 600

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|     |             |            |            |            |             |            |      |
|-----|-------------|------------|------------|------------|-------------|------------|------|
| 58  | uuucagccca  | gaaguaauac | ccauguuuuc | agcauuauca | gaaggagcca  | ccccacaaga | 660  |
| 59  | uuuaaacacc  | augcuuaaca | cagugggggg | acaucaagca | gccaugcaaa  | uguuaaaaga | 720  |
| 60  | gaccaucaau  | gaggaagcug | cagaauggga | uagaguacau | ccagugcaug  | cagggccuau | 780  |
| 61  | ugcaccaggc  | cagaugagag | aaccaagggg | aagugacaua | gcaggaacua  | cuaguacccu | 840  |
| 62  | ucaggaacaa  | auaggauagg | ugacaaaaua | uccaccuau  | ccaguaggag  | aaauuuauaa | 900  |
| 63  | aagauggaua  | auccugggau | uaauuaaaau | aguaagaau  | uauagccua   | ccagcauucu | 960  |
| 64  | ggacauaaga  | caaggaccaa | aagaaccuuu | uagagacuau | guagaccggu  | ucuauaaaac | 1020 |
| 65  | ucuaagagcc  | gagcaagcuu | cacaggaggu | aaaaaaugg  | augacagaaa  | ccuuguuggu | 1080 |
| 66  | ccaaaugcg   | aaccagauu  | guaagacuau | uuuaaaagca | uugggaccag  | cggcuacacu | 1140 |
| 67  | agaagaaug   | augacagcau | gucagggagu | aggaggagcc | ggccauaagg  | caagaguuuu | 1200 |
| 68  | ggcugaagca  | augagccaag | uaacaaaau  | agcuaccua  | augaugcaga  | gaggcauuu  | 1260 |
| 69  | uaggaaccaa  | agaaagau   | uuaguguuu  | caauugugg  | aaagaaggc   | acacagccag | 1320 |
| 70  | aaauugcagg  | gccccuagg  | aaaagggcug | uuggaaaugu | ggaaaggag   | gacaccaaau | 1380 |
| 71  | gaaagauugu  | acugagagac | aggcuauuu  | uuuagggaag | aucuggccuu  | ccuacaagg  | 1440 |
| 72  | aaggccagg   | aaauuuuuc  | agagcagacc | agagccaaca | gccccaccau  | uucuuacag  | 1500 |
| 73  | cagaccagag  | ccaacagccc | caccagaaga | gagcuucagg | ucuggggguag | agacaacaac | 1560 |
| 74  | ucccccucag  | aagcaggagc | cgauagacaa | ggaacugua  | ccuuuaacuu  | cccucagau  | 1620 |
| 75  | acucuuggc   | aacgacccu  | cgucacaaua | aagauaggg  | ggcaacuaaa  | ggaagcucua | 1680 |
| 76  | uuagauacag  | gagcagauga | uacaguauua | gaagaauga  | guuugccagg  | aagauggaaa | 1740 |
| 77  | ccaaaaauga  | uagggggaau | uggagguuuu | aucaaaaua  | gacaguauga  | ucagauacuc | 1800 |
| 78  | auagaaaucu  | guggacauaa | agcuauaggu | acaguauuag | uaggaccuac  | accugucaac | 1860 |
| 79  | auaaauagg   | gaaauucugu | gacucagauu | gguugcacuu | uaauuuuucc  | cauuaagccu | 1920 |
| 80  | auugagacug  | uaccaguaaa | auuaaagcca | ggaauaggag | gcccaaaagu  | uaaacaagg  | 1980 |
| 81  | ccauugacag  | aagaaaaau  | aaaagcauu  | guagaaauu  | guacagaaau  | ggaaaaggaa | 2040 |
| 82  | gggaaaauu   | caaaaauugg | gccugagaau | ccauacaau  | cuccaguauu  | ugccauaaag | 2100 |
| 83  | aaaaaagaca  | guacuaaaug | gagaaaauu  | guagauuuca | gagaacuuua  | uaagagaacu | 2160 |
| 84  | caagacuucu  | gggaaguuca | auuaggaaua | ccacauccc  | cagggguuaa  | aaagaaaaaa | 2220 |
| 85  | ucaguaacag  | uacuggaugu | gggugaugca | uaauuuucag | uucccuuaga  | ugaagacuuc | 2280 |
| 86  | aggaaguaua  | cugcauuuac | cauaccuagu | auaaaacaug | agacaccagg  | gauuagauau | 2340 |
| 87  | caguacaaug  | ugcuuccaca | gggauggaaa | ggaucaccag | caauuuucca  | aaguagcaug | 2400 |
| 88  | acaaaaaucu  | uagagccuuu | uaaaaaacaa | aauccagaca | uaguuaucua  | ucaauacaug | 2460 |
| 89  | gaugauuuugu | auguaggauc | ugacuuaaga | auagggcagc | auagaacaaa  | aaugaggag  | 2520 |
| 90  | cugagacaac  | aucuguugag | guggggacuu | accacaccag | acaaaaaaca  | ucagaaagaa | 2580 |
| 91  | ccuccauucc  | uuuggauggg | uuauagauc  | cauccugaua | aauggacagu  | acagccuaua | 2640 |
| 92  | gugcugccag  | aaaaagacag | cuggacuguc | aaugacauac | agaaguuaug  | ggggaaaau  | 2700 |
| 93  | aauggggcaa  | gucagaauua | cccagggaau | aaaguaaggc | aauuauguaa  | acuccuuaga | 2760 |
| 94  | ggaaccaaa   | cacuaacaga | aguaauacca | cuaacagaag | aagcagagcu  | agaacuggca | 2820 |
| 95  | gaaaacagag  | agauucuaaa | agaaccagua | cauggagugu | auuauagacc  | aucaaaagac | 2880 |
| 96  | uuauuagcag  | aaauacagaa | gcaggggcaa | ggccaaugga | cauaucaau   | uuaucaagag | 2940 |
| 97  | ccauuuuaaa  | aucugaaaa  | aggaaaauau | gcaagaauga | ggggugccca  | cacuaaugau | 3000 |
| 98  | guaaaaacaa  | uaacagaggc | agugcaaaaa | auaaccacag | aaagcauagu  | aaauugggga | 3060 |
| 99  | aagacuucca  | aauuuaacu  | acccauacaa | aaggaaacau | gggaaacau   | guggacagag | 3120 |
| 100 | uauuggcaag  | ccaccuggau | uccugagugg | gaguuuuguu | auacccucc   | uuuagugaaa | 3180 |
| 101 | uuauugguacc | aguuaagaga | agaacccaua | guaggagcag | aaaccuucua  | uguagauggg | 3240 |
| 102 | gcagcuuaa   | gggagacuaa | auuaggaaua | gcaggauaug | uuacuaacaa  | aggaagacaa | 3300 |
| 103 | aagguugucc  | cccuaacuaa | cacaacaaau | cagaaaacug | aguuaacaagc | aauuuauua  | 3360 |
| 104 | gcuuugcagg  | auucaggauu | agaaguuaac | auaguaacag | acucacaaua  | ugcauuagg  | 3420 |
| 105 | aucauucaag  | cacaaccaga | uaaaagugaa | ucagaguua  | ucaaucaau   | aaugagcag  | 3480 |
| 106 | uuauuaaaaa  | aggaaaaggu | cuaucuggca | uggguaccag | cacacaaagg  | aaugggagga | 3540 |

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|     |             |             |             |             |            |             |      |
|-----|-------------|-------------|-------------|-------------|------------|-------------|------|
| 107 | aaugaacaag  | uagauaaaau  | agucagugcu  | ggaaucagga  | aaauacuauu | uuuagaugga  | 3600 |
| 108 | auagauaagg  | cccaagauga  | acaugagaaa  | uauacacagua | auuggagagc | aauggcuagu  | 3660 |
| 109 | gauuuuaacc  | ugccaccugu  | aguagcaaaa  | gaaauaguag  | ccagcuguga | uaaauugucag | 3720 |
| 110 | cuaaaaggag  | aagccaugca  | uggacaagua  | gacuguaguc  | caggaaauag | gcaacuagau  | 3780 |
| 111 | uguacacauu  | uagaaggaaa  | aguuauccug  | guagcaguuc  | auguagccag | uggauauua   | 3840 |
| 112 | gaagcagaag  | uuauuccagc  | agaaacaggg  | caggaaacag  | cauauuuucu | uuuaaaaua   | 3900 |
| 113 | gcaggagaag  | ggccaguaaa  | aacaauacau  | acagacaau   | gcagcauuu  | caccagugcu  | 3960 |
| 114 | acgguaaagg  | ccgcugugug  | gugggcgagg  | aucaagcagg  | aaauuggaau | ucccuacaau  | 4020 |
| 115 | ccccaaaguc  | aaggagugau  | agaaucuaug  | aauaaagaau  | uaaagaaaau | uauaggacag  | 4080 |
| 116 | guaagagauc  | aggcugaaca  | ucuaagaca   | gcaguacaaa  | uggcaguauu | cauccacaau  | 4140 |
| 117 | uuuaaaagaa  | aagggggggu  | uggggggguac | agugcagggg  | aaagaauagu | agacauaaua  | 4200 |
| 118 | gcaacagaca  | uacaaacuaa  | agaauuacaa  | aaacaaaua   | caaaaauua  | aaauuuucgg  | 4260 |
| 119 | guuuauuaca  | gggacagcag  | aaauccacuu  | uggaaaggac  | cagcaaagcu | ccucuggaaa  | 4320 |
| 120 | ggugaagggg  | caguaguaau  | acaagauaau  | agugacauaa  | aaguagugcc | aagaagaaaa  | 4380 |
| 121 | gcaaagauca  | uuagggaaua  | uggaaaacag  | auggcaggug  | augauugugu | ggcaaguaga  | 4440 |
| 122 | caggauagag  | auuagaacau  | ggaaaaguuu  | aguaaaacac  | cauauugaug | uuucagggga  | 4500 |
| 123 | agcuagggga  | ugguuuuua   | gacauacua   | ugaaagcccu  | cauccaagaa | uaaguucaga  | 4560 |
| 124 | aguacacauc  | ccacuagggg  | augcuagauu  | gguaauaaca  | acauauuggg | gucugcauac  | 4620 |
| 125 | aggagaaaga  | gacuggcauu  | ugggucaggg  | agucuccaua  | gaauggagga | aaaagagaua  | 4680 |
| 126 | uagcacacaa  | guagacccug  | aacuagcaga  | ccaacuaauu  | caucuguaau | acuuugacug  | 4740 |
| 127 | uuuuucagac  | ucugcuauaa  | gaaaggccuu  | auuaggacac  | auaguuaagc | cuagguguga  | 4800 |
| 128 | auaucaagca  | ggacauaaca  | agguaggau   | ucuacaauac  | uuggcacuag | cagcauuaua  | 4860 |
| 129 | aacaccaaaa  | aagauaaagc  | caccuuugcc  | uaguguuacg  | aaacugacag | aggauagaug  | 4920 |
| 130 | gaacaagccc  | cagaagacca  | agggccacag  | agggagccac  | acaaugaau  | gacacuagag  | 4980 |
| 131 | uuuuuagagg  | agcuuaagaa  | ugaagcuguu  | agacauuuuc  | cuaggauuug | gcuccauggc  | 5040 |
| 132 | uuaggggca   | auaucuauga  | aacuuauagg  | gauacuuggg  | caggagugga | agccauaaua  | 5100 |
| 133 | agaauucugc  | aacaacugcu  | guuuauccau  | uuucagaauu  | gggugucgac | auagcagaau  | 5160 |
| 134 | aggcgguacu  | cgacagagga  | gagcaagaaa  | uggagccagu  | agauccuaga | cuagagcccu  | 5220 |
| 135 | ggaagcaucc  | aggaagucag  | ccuaaaacug  | cuuguacca   | uugcuauugu | aaaaaguguu  | 5280 |
| 136 | gcuuucuuug  | ccaaguuuug  | uucuaaaca   | aagccuuagg  | caucuccuau | ggcagggaaga | 5340 |
| 137 | agcgagagaca | gcgacgaaga  | ccuccucaag  | gcagucagac  | ucaucaagu  | ucucuauca   | 5400 |
| 138 | agcaguaagu  | aguacaugua  | augcaaccua  | uacaaauagc  | aauguagca  | uuaguaguag  | 5460 |
| 139 | caauaauaau  | agcauaguuu  | guguggucca  | uaguaucau   | agaauauagg | aaaaauuaa   | 5520 |
| 140 | gacaaagaaa  | aaugacaggg  | uuauuugua   | gacuaauaga  | aagagcagaa | gacaguggca  | 5580 |
| 141 | augagaguga  | aggagaaaua  | ucagcacuug  | uggagauugg  | gguggagau  | gggcaccaug  | 5640 |
| 142 | cuccuuggga  | uguugaugau  | cuguagugcu  | acagaaaaau  | ugugggucac | agucuaauau  | 5700 |
| 143 | gggguaaccug | uguggaaggga | agcaaccacc  | acucuaauuu  | gugcaucaga | ugcuaaagca  | 5760 |
| 144 | uauauacag   | agguacauaa  | uguuuggggc  | acacaugccu  | guguacccac | agaccccaac  | 5820 |
| 145 | ccacaagaag  | uaguauuggu  | aaaugugaca  | gaaaauuuu   | acauguggaa | aaaugacau   | 5880 |
| 146 | guagaacaga  | ugcaugagga  | uauaaucagu  | uuauugggac  | aaagccuaaa | gccaugugua  | 5940 |
| 147 | aaauuaacc   | cacucugugu  | uaguuuuaag  | ugcacugauu  | ugaagaauga | uacuaauacc  | 6000 |
| 148 | aauguaguua  | gcgggagaa   | gauaauggag  | aaaggagaga  | uaaaaaacug | cucuuaaua   | 6060 |
| 149 | aucagcaca   | gcauaagagg  | uaaggugcag  | aaagaauaug  | cauuuuuuu  | uaaacuugau  | 6120 |
| 150 | auaaauacca  | uagauaauga  | uacuaccagc  | uauacguuga  | caaguuguaa | caccucaguc  | 6180 |
| 151 | auuacacagg  | ccuguccaaa  | gguaaccuuu  | gagccaaau   | ccaauacaua | uugugccccg  | 6240 |
| 152 | gcugguuuug  | cgauucuaaa  | auguaauaau  | aagacguuca  | auggaacagg | accauguaca  | 6300 |
| 153 | aaugucagca  | caguacaaug  | uacacauugga | auuaggccag  | uaguaucaac | ucaacugcug  | 6360 |
| 154 | uuaaauaggca | gucuggcaga  | agaagaggua  | guauuagau   | cugccaaauu | cacagacaau  | 6420 |
| 155 | gcuaaaacca  | uaauaguaca  | gcugaacca   | ucuguagaaa  | uuauuuguac | aagacccaac  | 6480 |

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156 aacaauacaa gaaaaaguau ccguauccag agaggaccag ggagagcauu uguuacaaua 6540
157 ggaaaaauag gaaauaugag acaagcacau uguaacauua guagagcaaa auggaauaac 6600
158 acuuuaaaac agauagauag caaaauaaga gaacaauuug gaaauaauaa aacaauaauc 6660
159 uuaaagcagu ccucaggagg ggacccagaa auuguaacgc acaguuuuaa uuguggaggg 6720
160 gaauuuuucu acuguaauuc aacacaacug uuaauauga cuugguuaa uaguacuugg 6780
161 aguacuaaag ggucaauuaa cacugaagga agugacacaa ucaccucccc augcagaaua 6840
162 aaacaaauua uaaacaugug gcagggaagua ggaaaagcaa uguaugcccc ucccacagu 6900
163 ggacaaauua gauguucauc aaauuuuaca gggcugcuau uaacaagaga uggugguaua 6960
164 agcaacaaua aguccgagau cuucagaccu ggaggaggag auaugaggga caauuggaga 7020
165 agugaauuau auaaauaaua aguaguaaaa auugaaccuau uaggaguagc acccaccag 7080
166 gcaaagagaa gaguggugca gagagaaaaa agagcagugg gaauaggagc uuuguuccuu 7140
167 ggguucuugg gagcagcagg aagcacuauug ggcgcagcgu caaugacgcg gacgguacag 7200
168 gccagacaau uauugucugg uauagucag cagcagaaca auuugcugag ggcuaauugag 7260
169 gcgcaacagc aucuguugca acucacaguc uggggcauca agcagcucca ggcaagaauc 7320
170 cuggcugugg aaagauaccu aaaggaucaa cagcuccugg ggauuugggg uugcucugga 7380
171 aaacucauuu gcaccacugc ugugccuugg aaugcuaguu ggaguaauaa aucucuggaa 7440
172 cagauuugga auaacaugac cuggauggag ugggacagag aaauuaacaa uuacacaagc 7500
173 uuaauacacu ccuuauuuga agaaucgcaa aaccagcaag aaaagauga acaagaauua 7560
174 uuggaauuag auaaaugggc aaguuugugg auuugguuua acauaacaaa ugggcugugg 7620
175 uauauaaaau uauucauaua gauaguagga ggcuugguag guuuagaau aguuuuugcu 7680
176 guacuauucg uagugaauag aguauaggcag ggauauucac cauuaucguu ucagacccac 7740
177 cucccaaucc cgaggggacc cgacaggccc gaaggauuag aagaagaagg uggagagaga 7800
178 gacagagaca gauccauucg auuagugaac ggauccuug cacuuaucug ggacgaucug 7860
179 cggagccugu gccucuucag cuaccaccgc uugagagacu uacucuugau uguaacgagg 7920
180 auuguggaac uucugggacg cagggggugg gaagcccuca aaauuuggug gaauuccua 7980
181 caguauugga gucaggagcu aaagaauagu gcuguuagcu ugcucaaugc cacagcuaua 8040
182 gcguagcug aggggacaga uaggguuaua gaaguaguac aaggagcuua uagagcuauu 8100
183 cgccacauac cuagaagaau aagacagggc uuggaaaggga uuuugcuaua agauugggug 8160
184 caagugguca aaaaguagug uggguuggaug gccugcugua agggaaagaa ugagacgagc 8220
185 ugagccagca gcagauuggg ugggagcagc aucucgagac cuagaaaaac auggagcaau 8280
186 cacaaguagc aacacagcag cuaacaaugc uguuugucc uggcuagaag cacaagagga 8340
187 ggaggaggug gguuuuccag ucacaccuca gguaccuuua agaccauga cuuacaaggc 8400
188 agcuguagau cuuagccacu uuuuaaaaga aaagggggga cuggaagggc uauuucacuc 8460
189 ccaacgaaga caagauaucc uugaucugug gaucuaaccac acacaaggcu acuucccuga 8520
190 uuagcagaac uacacaccag ggccagggau cagauaucca cugaccuuug gauggugcua 8580
191 caagcuagua ccaguugagc cagagaaguu agaagaaggc aacaaaggag agaaccagg 8640
192 cuuguuacac ccugugagcc ugcauggaau ggauagcccc gagagagaag uguuagagug 8700
193 gagguuugac agccgccuag cauuucauca cauggcccg gagcugcauc cggaguacuu 8760
194 caagaacugc ugacaucgag cuugcuacaa gggacuucc gcuggggacu uuccagggag 8820
195 gcguggccug ggcgggacug gggaguggcg agcccucaga uccugcauau aagcagcugc 8880
196 uuuuugccug uacugggucu cucugguuag accgaucug agccugggag cuc 8933

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200 &lt;210&gt; SEQ ID NO: 4

201 &lt;211&gt; LENGTH: 8933

202 &lt;212&gt; TYPE: RNA

203 &lt;213&gt; ORGANISM: Artificial Sequence

205 &lt;220&gt; FEATURE:

206 &lt;223&gt; OTHER INFORMATION: Sequence of the IAC-Asrc pseudo target

208 &lt;221&gt; NAME/KEY: mutation

209 &lt;222&gt; LOCATION: (4135)...(4155)

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210 <223> OTHER INFORMATION: Mutated positions: 4135, 4140-1, 4145, 4150,  
 211 4152-3, 4155

213 <400> SEQUENCE: 4

|     |             |             |             |             |             |            |      |
|-----|-------------|-------------|-------------|-------------|-------------|------------|------|
| 214 | gagcucucuc  | gacgcaggac  | ucggcuugcu  | gaagcgcgca  | cggcaagagg  | cgaggggagg | 60   |
| 215 | cgacugguga  | guacgccaaa  | aauiuuugacu | agcggaggcu  | agaaggagag  | agaugggugc | 120  |
| 216 | gagagcguca  | guauuaagcg  | ggggagaaau  | agaucgaugg  | gaaaaaaauuc | gguaaaggcc | 180  |
| 217 | agggggaaaag | aaaaaaauua  | aauiuaaaaca | uauaguauug  | gcaagcaggg  | agcuagaacg | 240  |
| 218 | auucgcaguu  | auuccuggcc  | uguuagaaac  | aucagaaggc  | uguagacaaa  | uacugggaca | 300  |
| 219 | gcuacaacca  | ucccuucaga  | caggaucaaga | agaacuuaga  | ucauuauua   | auacaguagc | 360  |
| 220 | aaaccucuaa  | ugugugcauc  | aaaggauaga  | gauaaaaagac | accaagggaag | cuuagacaa  | 420  |
| 221 | gauagaggaa  | gagcaaaaaca | aaaguaagaa  | aaaagcacag  | caagcagcag  | cugacacagg | 480  |
| 222 | acacagcagu  | caggucagcc  | aaaauuaccc  | uauagugcag  | aacauccagg  | ggcaaauggu | 540  |
| 223 | acaucaggcc  | auaucaccua  | gaacuuuaaa  | ugcaugggua  | aaaguaguag  | aagagaaggc | 600  |
| 224 | uuucagccca  | gaaguaauac  | ccauguuuuc  | agcauuauca  | gaaggagcca  | ccccacaaga | 660  |
| 225 | uuuaaacacc  | augcuuaaca  | cagugggggg  | acaucaagca  | gccaugcaaa  | uguuaaaaga | 720  |
| 226 | gaccaucaau  | gaggaagcug  | cagaauaggga | uagaguacau  | ccagugcaug  | cagggccuau | 780  |
| 227 | ugcaccaggc  | cagaugagag  | aaccaagggg  | aagugacaua  | gcagggaacua | cuaguacccu | 840  |
| 228 | ucaggaacaa  | auaggauagg  | ugacaaaaua  | uccaccuauc  | ccaguaggag  | aaauuuauaa | 900  |
| 229 | aagauggaua  | auccugggga  | uaauuaaaau  | aguaagaau   | uauagcccu   | ccagcauucu | 960  |
| 230 | ggacauaaga  | caaggaccaa  | aagaaccuuu  | uagagacuau  | guagaccggu  | ucuauaaaaa | 1020 |
| 231 | ucuaagagcc  | gagcaagcuu  | cacaggagggu | aaaaaaauug  | augacagaaa  | ccuuguuggu | 1080 |
| 232 | ccaaaauagc  | aaccagauu   | guaagacuau  | uuuaaaagca  | uugggaccag  | cggcuacacu | 1140 |
| 233 | agaagaaaug  | augacagcau  | gucagggagu  | aggaggaccc  | ggccauaagg  | caagaguuuu | 1200 |
| 234 | ggcugaagca  | augagccaag  | uaacaaauac  | agcuaccuaa  | augaugcaga  | gaggcauuuu | 1260 |
| 235 | uaggaaccaa  | agaaagaugg  | uuaguguuu   | caauuguggc  | aaagaagggc  | acacagccag | 1320 |
| 236 | aaauugcagg  | gccccuagga  | aaaagggcug  | uuggaaaugu  | ggaaaaggag  | gacaccaaau | 1380 |
| 237 | gaaagauugu  | acugagagac  | aggcuauuuu  | uuuagggag   | aucuggccuu  | ccuacagggg | 1440 |
| 238 | aaggccaggg  | aauiuuucuu  | agagcagacc  | agagccaaca  | gccccaccuu  | uccuucagag | 1500 |
| 239 | cagaccagag  | ccaacagccc  | caccagaaga  | gagcuucagg  | ucugggggag  | agacaacaac | 1560 |
| 240 | ucccccucag  | aagcaggagc  | cgauagacaa  | ggaaacugua  | ccuuuaacuu  | cccucagauc | 1620 |
| 241 | acucuauugc  | aacgaccccu  | cgucacaaua  | aagauagggg  | ggcaacuuaa  | ggaagcucua | 1680 |
| 242 | uuagauacag  | gagcagauga  | uacaguauua  | gaagaaauga  | guuugccagg  | aagauggaaa | 1740 |
| 243 | ccaaaaauga  | uagggggaau  | uggagguuuu  | aucaaaagua  | gacaguaua   | ucagauacuc | 1800 |
| 244 | auagaaaucu  | guggacauaa  | agcuauaggu  | acaguauuag  | uaggaccuac  | accugucaac | 1860 |
| 245 | auaaauagg   | gaaucuguu   | gacucagauu  | gguuugcacuu | uaauuuuucc  | cauagcccu  | 1920 |
| 246 | auugagacug  | uaccaguaaa  | auuaaagcca  | ggaauggaug  | gccccaaaag  | uaaacaauug | 1980 |
| 247 | ccauugacag  | aagaaaaau   | aaaagcauuu  | guagaaaauu  | guacagaaa   | ggaaaaggga | 2040 |
| 248 | gggaaaauuu  | caaaaaauug  | gccugagaa   | ccauacaaua  | cuccaguuu   | ugccauaaag | 2100 |
| 249 | aaaaaaagaca | guacuaaaug  | gagaaaauu   | guagauuuca  | gagaacuuu   | uaagagaacu | 2160 |
| 250 | caagacuucu  | gggaaguuca  | auuaggaaau  | ccacaucccg  | caggguuaaa  | aaagaaaaaa | 2220 |
| 251 | ucaguaacag  | uacuggaugu  | gggugaugca  | uuuuuuucag  | uucccuuaga  | ugaagacuuc | 2280 |
| 252 | aggaauguua  | cugcauuuac  | cauaccuagu  | auaaacaau   | agacaccagg  | gauuagauau | 2340 |
| 253 | caguacaau   | ugcuuccaca  | gggauggaaa  | ggauaccag   | caauuuucca  | aaguagcaug | 2400 |
| 254 | acaaaaaucu  | uagagccuuu  | uaaaaaacaa  | aauccagaca  | uaguuauca   | ucauacau   | 2460 |
| 255 | gaugauuuu   | auguaggau   | ugacuagaa   | auagggcag   | auagaacaaa  | aaugaggag  | 2520 |
| 256 | cugagacaac  | aucugaugag  | guggggacuu  | accacaccag  | acaaaaacaa  | ucagaaagaa | 2580 |
| 257 | ccuccauucc  | uuuggauggg  | uuuagaauc   | cauccugaua  | aauggacagu  | acagccuaua | 2640 |
| 258 | gugcugccag  | aaaaagacag  | cuggacuguc  | aaugacauac  | agaaguugu   | ggggaaaau  | 2700 |
| 259 | aauggggcaa  | gucagauuu   | cccagggaau  | aaaguaaggc  | aaauaugua   | acuccuuga  | 2760 |

VERIFICATION SUMMARY

DATE: 01/31/2002

PATENT APPLICATION: US/09/943,286

TIME: 13:09:39

Input Set : A:\GP104.SeqLst.corrected.txt

Output Set: N:\CRF3\01312002\I943286.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date